

# COLORADO RIVER AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT

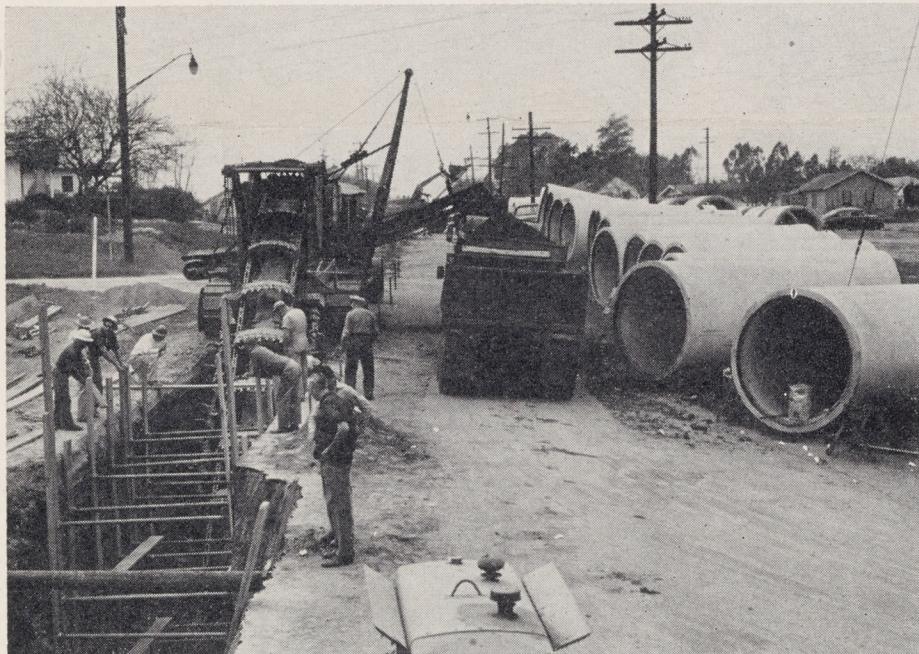


OF SOUTHERN CALIFORNIA

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Work on expansion of the Middle Feeder from the Softening Plant to Garvey Reservoir is shown in progress above. The picture shows a Buckeye trenching machine in operation on Graves Avenue near San Gabriel Boulevard. At the right are sections of 72-inch interior diameter precast concrete pipe. Each section is 16 ft. in length and weighs approximately 15 tons.

## Expansion of District's Distribution System Now Going Forward on Three Feeders

The expansion of the Metropolitan Water District's distribution system to bring additional Colorado River water to the rapidly growing Southern California area is proceeding with all possible dispatch, it was pointed out this month by Robert B. Diemer, General Manager and Chief Engineer.

Work on six separate contracts, totaling nearly \$19 million and involving the Middle Feeder, Lower Feeder and West Orange County Feeder Extension, is now under way and is in various stages of completion, according to Mr. Diemer.

The Middle Feeder expansion currently under construction consists of three separate contracts for the con-

struction of a pipe line from the Softening and Filtration Plant near La Verne to the Garvey Reservoir.

The line will start at the Softening and Filtration Plant and extend through San Dimas, down Bonita Avenue and through open country to Badillo Street in Covina. From there it will extend along Ramona Boulevard through West Covina and Baldwin Park, then along Durfee, Maxson, Klingerman, Mountain View and Rush Streets in the County and then to Graves Avenue into the Monterey Park area where Garvey Reservoir is located.

The first of the contracts on the Middle Feeder includes Schedules 56SC and 57SC and consists of 29,434 feet

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## Board Chairman Jensen Addresses State Chamber

The emphatic declaration that the Metropolitan Water District of Southern California was one of the first to recognize the need of an orderly development of the Feather River Project and, at the same time, the need of a constitutional amendment that would make possible a clear and permanent title to water exported to "Areas of Deficiency" was made on February 21 by Board Chairman Joseph Jensen of the Metropolitan Water District.

This declaration was made at a meeting of the Southern California Council, State Chamber of Commerce, at the Statler Hotel.

Mr. Jensen stated that some water leaders have declared that it is the continuing responsibility of the State to provide supplemental water to the Areas of Origin but have failed to declare that there is a similar obligation to the Areas of Deficiency. Mr. Jensen declared that the views of the Metropolitan Water District do not agree in this regard.

"When the Feather River Project came to the fore," Jensen said, "the Metropolitan Water District was the first to recognize its need and to point out that a clear title guaranteed by a constitutional amendment was the first essential. To accomplish this we submitted a proposed constitutional amendment to the legislatures of 1955 and 1956. At first we were told that no constitutional amendment was necessary. Today, it is recognized that the first step in our water problem is to secure a constitutional amendment.

"The view of the Metropolitan Water District is that once an honest, liberal effort has been made to set aside water for the Areas of Origin, should that water be used up, such areas then become Areas of Deficiency themselves and are entitled to the same consideration, but no more, than other similar

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COLORADO RIVER  
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 THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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## Distribution System Expansion Proceeding

(Continued from Page One)

and 24,951 feet, respectively, of 72-inch diameter steel pipe. This contract, in the amount of \$4,505,174, is held by Ukpoina, Polich, Kral and Baker-Anderson Corp. As of the end of February the contract was 25 percent complete with a total of 14,644 feet of pipe laid.

The second contract on the Middle Feeder is held by Vido Artukovich and Son in the amount of \$4,192,248 and includes Schedules 58SC and 59SC, consisting of 20,872 feet and 20,299 feet respectively, of 72-inch diameter steel pipe. This contract is now 12 percent complete with 6594 feet of pipe laid to date.

The last of the contracts on this feeder is for Schedule 59 A P, which includes 14,805 feet of 72-inch diameter concrete pipe and 1260 feet of 72-inch diameter steel pipe, and is held by the R. A. Wattson Company. The contract is in the amount of \$1,732,704 and is now 17 percent complete, with a total of 2428 feet of pipe laid thus far.

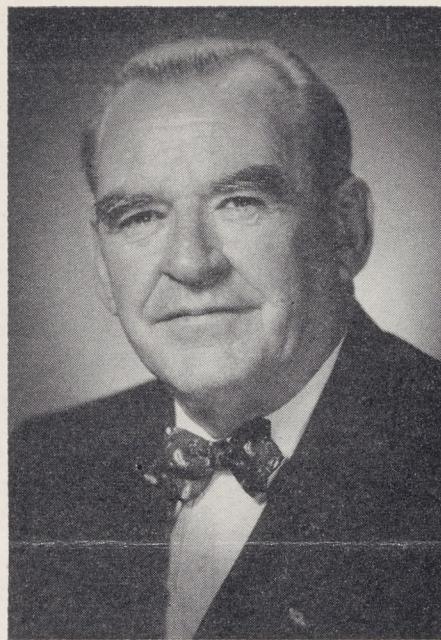
This segment of the Middle Feeder has a total length of 20.8 miles of pipe, all of which will have an interior diameter of 72 inches when the steel pipe is lined with mortar, Mr. Diemer said. These three contracts represent an investment of \$10,429,162.

On the Lower Feeder expansion two contracts for the construction of a pipe line from near Valley Home Avenue north of Buena Park westerly to Garfield Avenue have been let and construction is now under way.

The line begins on Imperial Boulevard near Valley Home Avenue and extends westerly along Imperial to Norwalk. From there it travels along Firestone Boulevard into Downey and then along Stewart and Gray Road to Garfield Avenue in South Gate.

The first of these contracts, termed Schedule 79SC, is held by Steve P.

(Continued on Page Four)



DIRECTOR VICTOR H. YORK

## Director York Named "Outstanding Citizen"

Director Victor H. York, one of the representatives of the Central Basin Municipal Water District on the Metropolitan Water District Board of Directors, was proclaimed the "Outstanding Citizen" of Whittier at a surprise, testimonial dinner in his honor on February 15 in Whittier.

Director York was honored by more than 130 business and community leaders for his "unselfish devotion, generosity and leadership" to countless projects and organizations in his community.

A message from Vice President Nixon on congratulating Mr. York for his record of service to the civic and cultural life of the community was read as was a City Council resolution of tribute. The resolution stated in part:

"...the Whittier City Council notes with deep appreciation the many contributions he has made to the development and betterment of our community, and publicly testifies to the loyalty and generosity which have won for him the confidence, respect and friendship of all who know him."

Mr. York, who has been on the District Board since November, 1954, following the annexation of the Central Basin area to the District, has been the recipient of the Salvation Army Distinguished Service Cross. There are only 12 such awards which have been presented in the United States and 42 in the world.

## For the RECORD

(The following items are noted from the report of General Manager and Chief Engineer Robert B. Diemer, filed February, 1957 covering District operations for January, 1957.)

**Colorado River**—The water surface elevation in Lake Mead dropped 2.23 feet during January to elevation 1095.05 and the usable storage decreased 207,000 acre-feet to 11,768,000. This is 5.85 feet higher and 557,000 acre-feet more than at this time last year. The average rate of discharge from Hoover Dam during the month was 8850 cubic feet per second as compared with 9,467 a year ago and 7,820 cfs during December.

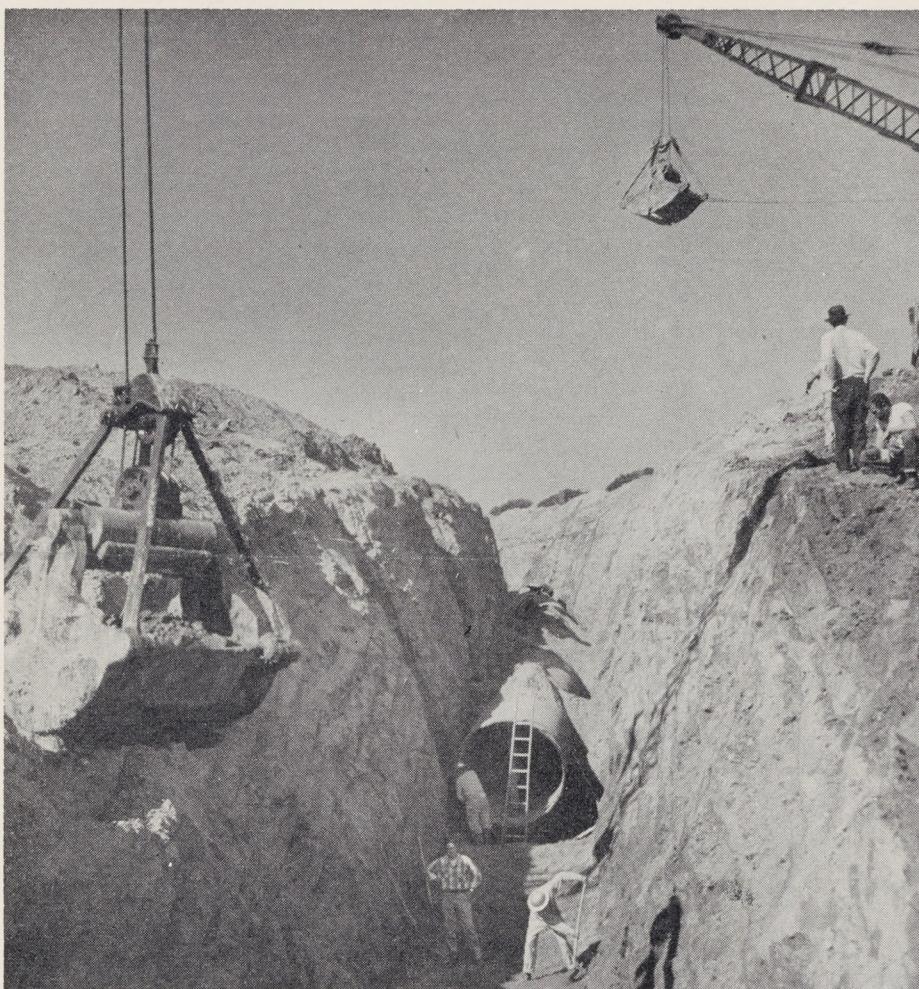
**Power and Pumping**—Pumping at Hayfield was continuous throughout the month on a 4-pump basis except for approximately a 4-hour shutdown of all pumps. A total of 47,577 acre-feet was delivered by the Hayfield pumping plant. The District's share of Parker energy for January was 8,075,115 kWhrs, all of which was used by the District in its own system. Peak delivery to and from Edison Company was 110,000 kw and 130,000 kw, respectively.

**Weymouth Softening and Filtration Plant**—Colorado River water was softened from 398 to 126 ppm of hardness at an average rate of 161 cfs during the month of January. The daily rate of flow varied from a minimum of 95 cfs to a maximum of 197 cfs. The total volume of water treated in January was 9733 acre-feet.

**Construction**—Progress on construction work during January was as follows: Schedule 79SC and 80SC (Lower Feeder) the contracts are 65 and 67 percent complete, respectively; Schedule 61SC (West Orange County Feeder Extension) work is 98 percent complete; Schedules 56SC and 57SC (Middle Feeder) the contract is 20 percent complete; Schedules 58SC and 59SC (Middle Feeder) the contract is 3 percent complete; and on 59A P (Middle Feeder) the contract is 6 percent complete.

**Extension of Pumping Plant Buildings**—The contract is 72 percent complete. Work at Intake is 97 percent complete; at Gene Plant work is 90 percent complete; at Iron Mountain plant work is 77 percent complete; at Eagle Mountain work is 71 percent complete; and at Hayfield the work is 35 percent complete.

**Purchasing**—Total expenditures covered by 356 purchase orders and 2 agreements approximate \$96,173.



Two clam shells are shown excavating a deep cut on Schedule 79SC on the expansion of the Lower Feeder. Workmen are placing 78-inch interior diameter steel pipe which will enable the District to supply additional Colorado River water to Orange County and the Coastal Municipal area. The picture was taken along Imperial Highway near its junction with Anaheim-Telegraph Road.



DIRECTOR A. C. REYNOLDS—Five Years on District Board

Director A. C. Reynolds, who represents the Chino Basin Municipal Water District on the Metropolitan Water District Board of Directors, was presented with his five year service pin on February 19.

The Chino District includes the communities of Chino, Fontana, Monte Vista, Ontario and Upland and large unincorporated areas.

Mr. Reynolds, now retired, served for a number of years as Secretary of the California Mutual Water Companies Association. He now lives in Ontario.

## State Chamber Meeting

(Continued from Page One)

Areas of Deficiency existing at that time," said Mr. Jensen.

"We, of the Metropolitan Water District, believe that the doctrine of 'most beneficial use' of waters still prevails and that the unapportioned water of the State belongs to all of the people of the State. Obviously then, Areas of Origin which become Areas of Deficiency must be treated the same as other existing and future Areas of Deficiency. A citizen of the State living in San Francisco, San Jose, San Bernardino or San Diego has an equal right to have his individual deficiency cared for by the State the same as a resident of 'any Areas of Origin'.

"How far would the people of Southern California get if they contended that the oil resources of the State were

not available to all the people of the State because the oil is produced only in Central and Southern California. As it is, this oil is available to everyone in California at the same price, plus the cost of transportation. We feel this is a just and fair rule.

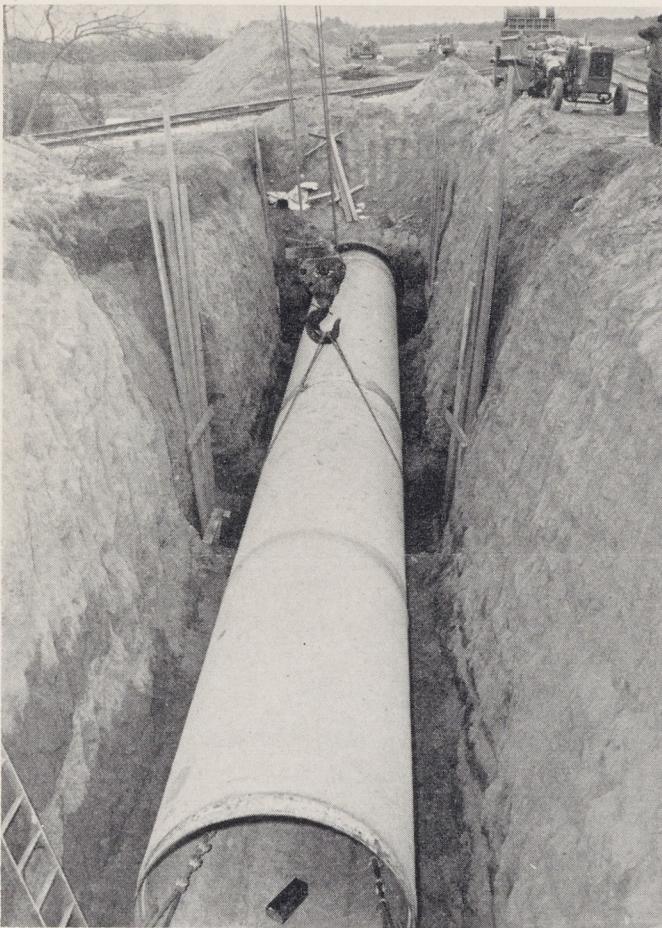
"We expect to pay the added cost of constructing the works that bring the water into Southern California."

Mr. Jensen pointed out that there is considerable misunderstanding as to the actual source of water that would be supplied to Southern California from the "Feather River Project." He drew attention to the fact that "the water of the Feather River Project actually will come from the delta of the Sacramento and San Joaquin rivers.

"Even the water from the Oroville dam on the Feather River," said Mr. Jensen, "will be co-mingled with water from the Sacramento River before it reaches the delta."

It was emphasized by Mr. Jensen that the officials of the Metropolitan Water District fully recognize that existing water rights in the Areas of Origin and elsewhere are not to be disturbed but are to be respected in every way in the development of the Feather River Project or any other water project in California. Furthermore, he declared that generous amounts of water ought to be allocated to the Areas of Origin when the official allocations are made as between the Areas of Origin and the Areas of Deficiency.

Referring to the difficulties of working out common agreements on the State's complicated and vital water problems, Mr. Jensen said: "It is easy to make concessions and to compromise when we are confronted with conflicting views. It becomes a much more difficult job to protect the taxpayer when the going gets rough and the criticism becomes severe."



In the above picture work on the Middle Feeder is shown in progress. Here 72-inch interior diameter steel pipe is being placed in a tunnel under a spur of the Pacific Electric Railroad tracks at Lone Hill Avenue.



This view is also on the Middle Feeder expansion work. It shows 72-inch interior diameter steel pipe being placed under other existing utility lines. Note that one line is being supported by a steel girder while work is in progress.

## Distribution Expansion

(Continued from Page Two)

Rados and is in the amount of \$3,011,760. It calls for 28,804 feet of 78-inch diameter steel pipe and is now 73 percent complete with a total of 20,936 feet of pipe laid to date.

The second contract on the Lower Feeder, Schedule 80SC, is in the amount of \$3,754,543 and is held by Ukpolina, Polich, Kral and Baker-Anderson Corp. It consists of 32,253 feet of 72-inch diameter steel pipe and is now 72 percent complete. Thus far 23,176 feet of pipe has been laid. The two contracts on the Lower Feeder have a combined length of 11.5 miles of steel pipe and represent an investment of \$6,766,303.

The West Orange County Feeder Extension, known as Schedule 61SC, consists of 22,603 feet of 54-inch steel pipe. This line begins in Buena Park and extends along Dale Avenue through Fullerton and on north to near the Orange County line where it will connect the Lower Feeder with the West Orange County Feeder. The contract is for \$1,541,262 and is held by Ukp-

pina, Polich, Kral and Baker-Anderson Corp.

This contract is now 99 percent complete with only clean up work remaining. Hydrostatic tests of the entire line have been successfully completed. It is 4.3 miles in length.

These six contracts will have a combined value of \$18,736,691 when completed. However, District furnished materials, rights of way, engineering and amounts for contingencies will bring the total investment to \$22,730,000 for these phases of the expansion of the distribution system.

All of the work on all six of the contracts is scheduled to be completed between now and November 30, with most phases being finished prior to that date, Mr. Diemer declared. He said that when the work is completed the District will be able to furnish additional Colorado River water to the Central Basin, West Basin, Orange County and Coastal Municipal areas.

General Manager and Chief Engineer Diemer pointed out that other vitally important phases of expansion are being carried forward at the same time

as the expansion of the distribution system. He said that the Metropolitan Water District is now engaged in an overall expansion program encompassing an investment of \$172 million.

This work, which began in 1952, will include, when completed, the addition of six pumping units at each of the five pumping stations, the construction of 47 new siphons between the Colorado River and the coastal plain of Southern California, doubling the capacity of Lake Mathews and enlarging the Softening and Filtration Plant.

The installation of pumping units four and five at each of the five pumping stations has already been completed as have other phases of the expansion.

Since the expansion program began, 121 contracts totaling \$96,638,000 for expansion of the main aqueduct and the distribution system have been awarded. Thus far \$68,300,000 or 70 percent of the contracts awarded have been completed. This means that approximately 40 percent of the overall expansion program of \$172 million has been completed at this time, Mr. Diemer concluded.

# NEWS FROM FIELD AND OFFICE



A. W. (Mac) McKinlay—25 Years of Service

A. W. (Mac) McKinlay became eligible for his 25-year service pin on January 4, 1957.

Mac was employed as an accountant in November 1931 and reported for work Monday, January 4, 1932 to do special accounting work assisting the Controller in preparing the District Accounting Manual, and establishing the District's Accounts and Accounting System. He was placed in charge of the Accounting Division and was appointed Chief Accountant when construction of the aqueduct started.

In 1940 he was appointed Special Accounting Assistant for the District in the promulgation of Hoover Dam project operation and in 1942 became Assistant Controller and Chief Accountant. In July 1948 Mac was appointed Assistant Controller and in February 1949, upon the retirement of J. M. Luney, Controller, was selected by the Board of Directors to assume the duties of Controller, the position he now holds.

\* \* \*

Joy Dunlap, a former District employee, was a recent visitor to the Los Angeles office. Joy, who is a Captain in the Air Force, worked in the drafting division while with the District. He is making a career of the Air Force and is stationed at an air base in Florida.

The mess halls at Iron Mountain and Eagle Mountain have been converted to recreation halls and District employees are already putting them to good use for square dances and other social events.

\* \* \*

Guillermo Tovar, Assistant Engineer, who has been engaged in electrical design work in connection with pumping plant expansion, has returned to active military service with the Air Force. He is now located at the Air Electronics School, Keesler Air Force Base, Mississippi. He has the rank of Captain.

\* \* \*

Eagle Mountain employees held a farewell party in the recreation hall on February 26 for John M. Willard and his wife. John, Maintenance Mechanic, has been transferred to Gene Camp.

\* \* \*

Bill D. Boaldin, Utility Man at Hayfield, and his wife, Patricia, are the proud parents of a baby girl born on January 30. The young lady weighed 6 pounds, 12 ounces when she arrived at Casita Hospital in Indio. She has been named Jeri Ann.



Blanche La Palme is presented with a wrist watch from her fellow employees by "Rocky" Rockwell prior to her leaving the District to be married. Blanche had been with the District for about five years.



Ruth K. Thiers—25 Years of Service

Ruth K. Thiers became eligible for her 25-year service pin on January 1, 1957. For some time prior to her employment by the District on January 1, 1932, she had been secretary to Mr. James H. Howard, who, when he became General Counsel in December 1931, promptly arranged for Miss Thiers to join his staff. In 1937 she was given the title of Secretary to the General Counsel and has served in that official capacity ever since.

Miss Thiers has been in general charge of the clerical work of the Legal Department and has handled all of her varied and responsible duties in a most efficient, loyal and courteous manner. Under her commission as a Notary Public she performs valuable services and has administered the oaths of office to many of the Directors now serving on the Board.

\* \* \*

Eugéne Bowers, Research Chemist at the Softening Plant, has been elected a Charter Member of the Pomona Valley United Fund Board of Directors.

\* \* \*

Blanche La Palme, Secretary to Chief Electrical Engineer "Rocky" Rockwell, has left the District service to become a housewife. Blanche will be married in the near future to Charles Camaratta, who is engaged in the tile contracting business and in the citrus industry.

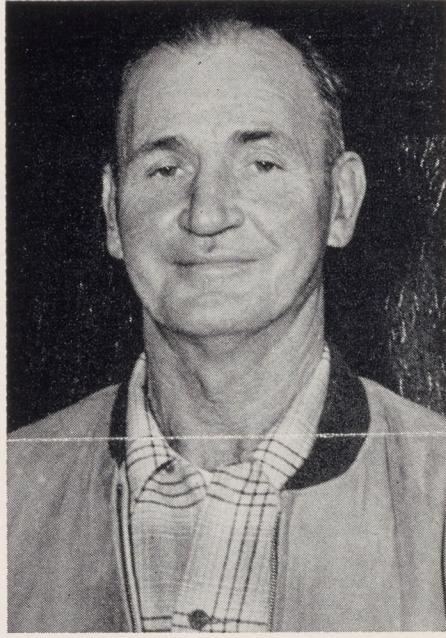
# NEWS FROM FIELD AND OFFICE



Marko (Mike) Soso—20 Years of Service

Marko (Mike) Soso became eligible for his 20-year service pin on January 6, 1957. He came to work for the District on August 16, 1934 as a Miner on Main Aqueduct tunnel construction. He resigned in April 1936, and was re-employed as a Driller on Distribution System tunnel construction in September 1938, and has worked continuously since then on the operation of the Distribution System as Maintenance Man and Patrolman, and as an inspector on pipe line construction. At present he is inspecting pipe laying operations in connection with the District's current expansion program.

Mike's knowledge of concrete pipe construction and installation has made him a very reliable inspector. He has spent more time in the pipe lines than any other inspector. Everyone knows the line is O.K. when Mike makes the final inspection.



John T. Bone—25 Years of Service

John T. Bone became eligible for his 25-year service pin on February 28, 1957. He first came to work for the District on December 1, 1930 as a Chainman on Main Aqueduct surveys, and worked continuously in several capacities, including Groundman and Mechanic Helper until February 1940, when he was laid off on reduction of forces.

He was re-employed in May 1941, and has worked since then as a Maintenance Man on the operation of both the Main Aqueduct and Distribution System. John is a truck driver who can be depended upon to see that the load arrives at the right location.

\* \* \*

Ed and Margaret Russell were guests at a pot luck dinner at Hayfield on February 26. Following dinner, Mrs. Russell showed a number of slides she took on her recent trip to Europe and gave an informal talk on her experiences while there.

\* \* \*

District employees are all pulling for a speedy recovery for E. V. "Gene" Reynolds, Superintendent of Transportation, who suffered a mild coronary thrombosis on February 28. Gene is in St. Vincent's Hospital in room 315 and is permitted to have visitors. He expects to be there for two or three more weeks and will then convalesce at home. Gene and his wife and daughter wish to express their appreciation for the many calls, notes and flowers they have received from District employees.



Anthony Lugo, son of Senior Photographer-Blueprinter Anthony (Tony) Lugo, is shown with his pretty bride, Rosalie Salas, as they cut their wedding cake following the nuptial ceremony. They were married at St. John's Church in Hyde Park on February 2 and honeymooned in Albuquerque, New Mexico.